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K133654
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Scenium VD10
510(k) Premarket Notification

510(k) Summary
as required by 21 CFR Part 807.92(c)

Submitter: Elaine Chang
Regulatory Technical Specialist
Siemens Medical Solutions USA, Inc.
Molecular Imaging
2501 N. Barrington Road
Hoffman Estates, IL 60192
USA

Telephone Number: (865) 218-2873

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Name / Address of
Manufacturer: Siemens Medical Solutions USA, Inc.
Molecular Imaging
2501 N. Barrington Road
Hoffman Estates, IL 60192
USA

Date of Submission: November 26, 2013

Identification of the product

Device Proprietary Name: Scenium VD10

Common Name: Picture Archiving and Communication System

Classification Name: Picture Archiving and Communication System per 21
CFR 892.2050

Emission Computed Tomography System per 21 CFR
892.1200

Product Code: LLZ and KPS

Classification Panel: Radiology

Device Class: Class II

Marketed Devices to which Equivalence is claimed

<u>Device</u>	<u>Manufacturer</u>	<u>510(k) Number</u>
Scenium 3.0	Siemens Medical Solutions USA, Inc	K121074
Neurogam Oasis	Segami Corporation	K071584
MIMNeuro	MIMVista Corp	K060816

Device Description:

Scenium VD10 display and analysis software enables visualization and appropriate rendering of multimodality data, providing a number of features which enable the user to process acquired image data.

Scenium VD10 consists of three main workflows: Database Comparison Workflow, Ratio Analysis Workflow, and Subtraction Workflow. These workflows are used to assist the clinician with the visual evaluation, assessment and quantification of pathologies, such as dementia (ie. Alzheimer's), movement disorders (ie. Parkinson's), and seizure analysis (ie. Epilepsy).

Indications for Use:

The Scenium display and analysis software has been developed to aid the Clinician in the assessment and quantification of pathologies taken from PET and SPECT scans.

The software is deployed via medical imaging workplaces and is organized as a series of workflows which are specific to use with particular drug and disease combinations.

The software aids in the assessment of human brain scans enabling automated analysis through quantification of mean pixel values located within standard regions of interest. It facilitates comparison with existing scans derived from FDG-PET, amyloid-PET, and SPECT studies, calculation of uptake ratios between regions of interest, and subtraction between two functional scans.

Performance Testing:

Performance and functional testing were conducted for Scenium VD10, and all performance requirements and specifications were met.

In addition, risk management is ensured via a risk analysis in compliance with ISO 14971:2007 and ISO 14971:2012 to identify and provide mitigation to potential hazards beginning early in the design cycle and continuing throughout the development of the product.

The device labeling contains instructions for use and any necessary cautions and warnings to provide for safe and effective use of the device.

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Substantial Equivalence:

Scenium VD10 device has the same intended use and utilizes the same fundamental scientific technology as the predicate devices. Both the device and predicates are used to assist the Clinician with the visual evaluation, assessment and quantification of pathologies derived from brain scans. The primary difference lies in the addition of a new subtraction workflow which is based on the existing software architecture of the primary predicate device, Scenium 3.0. The subtraction workflow allows for the analysis of difference images for epilepsy analysis.

These changes do not affect the fundamental scientific technology of the device, and Siemens considers Scenium VD10 to be as safe, as effective, and with performance substantially equivalent to its predicate devices.

Safety and Effectiveness:

The device is designed and manufactured under Quality System Regulations as outlined in 21 CFR 820. All requirements of Emission Computed Tomography system standards (21 CFR 892.1200) and Picture Archiving and Communications System (21 CFR 892.2050) are met, and software is in compliance with ISO 14971 and ISO 62304.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
10903 New Hampshire Avenue
Document Control Center - WO66-G609
Silver Spring, MD 20993-0002

Siemens Medical Solutions USA, Inc.
% Ms. Elaine Chang
Regulatory Technical Specialist
2501 N. Barrington Road
HOFFMAN ESTATES IL 60192

February 28, 2014

Re: K133654
Trade/Device Name: Scenium VD10
Regulation Number: 21 CFR 892.2050
Regulation Name: Picture archiving and communications system
Regulatory Class: II
Product Code: LLZ, KPS
Dated: November 26, 2013
Received: November 27, 2013

Dear Ms. Chang:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

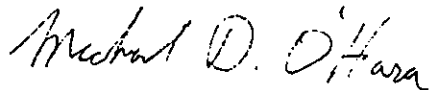
If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638 2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

 For

Janine M. Morris
Director
Division of Radiological Health
Office of In Vitro Diagnostics
and Radiological Health
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): K133654

Device Name: Scenium VD10

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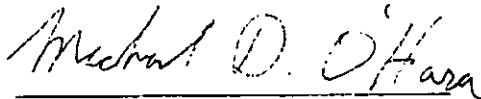
Prescription Use X
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use
(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF
NEEDED)

Concurrence of CDRH, Office of In Vitro Diagnostics and Radiological Health (OIR)



(Division Sign-Off)

Division of Radiological Health
Office of *In Vitro* Diagnostics and Radiological Health
510(k) K133654